

INTEGRATED READING AND WRITING OF A HOLOGRAM WITH A ROTATED REFERENCE BEAM POLARIZATION

ABSTRACT OF THE DISCLOSURE

5 A method for monitoring diffraction while recording a hologram includes: generating
a source beam; generating a data beam by projecting a first component of the source
beam through a data source, the data beam having a first polarization; generating a
reference beam by adjusting a polarization of a second component of the source beam
to provide a second polarization; recording a hologram in a holographic medium from
10 an interference between the data beam and the reference beam; and measuring an
offset component in an output arm of the data beam.